

Amendments to the Claims

This listing will replace all prior versions and listings of claims in the application:

Listing of Claims

Claims 1-29 (canceled)

Claim 30 (original): An apparatus for cleaning a workpiece with a cleaning medium maintained at a single fluid phase, said apparatus comprising:

means for providing said cleaning medium;

a pressurizable cleaning vessel for receiving said cleaning medium and said workpiece; and

means for maintaining a single fluid phase of said cleaning medium in said cleaning vessel.

Claim 31 (original): The apparatus of claim 30, wherein said means for providing said cleaning medium comprises:

a storage vessel for maintaining a supply of carbon dioxide;

a storage vessel for maintaining a supply of inert gas;

co-solvent supply vessel;

a pressurizable solvent delivery vessel for forming and delivering said cleaning medium;

means for providing inert gas to said solvent delivery vessel;

means for controlling the temperature of said solvent delivery vessel; and

an agitator for mixing carbon dioxide and said co-solvent in said solvent delivery vessel.

Claim 32 (original): The apparatus of claim 30, wherein said means for maintaining a single fluid phase of said cleaning medium comprises:

means for controlling the temperature of said cleaning vessel.

Claim 33 (original): An apparatus for cleaning a workpiece with a cleaning medium maintained at a single fluid phase, said apparatus comprising:

a storage vessel for maintaining a supply of carbon dioxide;

a storage vessel for maintaining a supply of inert gas;

co-solvent supply vessel;

a pressurizable solvent delivery vessel for forming and delivering said cleaning medium;

a pressurizable cleaning vessel for receiving said workpiece, said pressurizable cleaning vessel having an inlet for receiving said cleaning medium and an outlet;

a letdown valve in communication with said outlet;

means for placing said solvent delivery vessel in communication with said co-solvent supply vessel;

means for controlling the temperature of said solvent delivery vessel;

means for controlling the temperature of said cleaning vessel;

an agitator for mixing carbon dioxide and said co-solvent in said solvent delivery

vessel;

means for conveying at least one of carbon dioxide and inert gas from said storage vessels for maintaining a supply of carbon dioxide or said inert gas to said solvent delivery vessel and said cleaning vessel;

a first valve and a second valve in communication with said means for conveying at least one of carbon dioxide and inert gas; said first valve being in communication with said storage vessel for maintaining a supply of carbon dioxide and said storage vessel for maintaining a supply of said inert gas; said second valve being in communication with said solvent delivery vessel; and

a third valve; said third valve being in communication with said second valve, solvent delivery vessel and said cleaning vessel for conveying one or more of said cleaning medium, carbon dioxide and said inert gas to said cleaning vessel.

Claim 34 (original): The apparatus of claim 30, further comprising:

a separator means in communication with said letdown valve having a first outlet and a second outlet at a lower end of said separator means; and

means for condensing vapors to a liquid fluid phase, in communication with said first outlet of said separator means.